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By Alameda County Environmental Health at 8:58 am, May 23, 2013

May 14, 2013

Ms. Donna Drogos Alameda County Environmental Health 1131 Harbor Parkway, Suite 250 Oakland, CA 94502-6577

Subject:

First Quarter 2013 Groundwater Monitoring Report

Shore Acres Gas

403 East 12th Street, Oakland, Alameda County, California

RO #0002931 ECG # GHA.19009

Dear Ms. Drogos:

Enclosed please find a copy of the May 13, 2013 First Quarter 2013 Groundwater Monitoring Report for the above referenced site prepared by our consultant Environmental Compliance Group, LLC.

I declare, under penalty and perjury, that the information and/or recommendations contained in this report are true and correct to the best of my knowledge.

Respectfully,

Rashid Ghafoor



270 Vintage Drive Turlock, CA 95382 P: 209.664.1035 F: 209.664.1040

FIRST QUARTER 2013 GROUNDWATER MONITORING REPORT

SHORE ACRES GAS 403 EAST 12TH STREET OAKLAND, CALIFORNIA

Prepared for: Rashid Ghafoor

ECG Project Number: GHA.19009 Alameda County Fuel Leak Case No. RO0002931

May 13, 2013

MICHAEL

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INTRODUCTION

Environmental Compliance Group (ECG) has been authorized by Mr. Rashid Ghafoor to provide this interim results report for the site.

This report describes activities conducted during First Quarter 2013 groundwater monitoring event. Site information is as follows:

Site Location:

403 East 12th Street

Oakland, California

Geotracker Global ID:

T0600174667

LIMITATIONS

This report has been prepared for use by Rashid Ghafoor and the relevant regulatory agencies. The conclusions in this report are professional opinions based on the data presented in this report. This report was prepared in general accordance with hydrogeologic and engineering methods and standards. No other warranties are made as to the findings or conclusions presented in this report. The work described in this report was performed under the direct supervision of the professional geologist whose signature and State of California registration are shown above.

SITE DESCRIPTION AND HYDROGEOLOGIC CONDITIONS

SITE DESCRIPTION

The site occupies a parcel on the southeast corner of 4th Avenue and East 12th Street in Oakland, Alameda County, California (Figure 1). The site is situated in a commercial and residential area in central Oakland and is currently vacant. The site was historically used as a gasoline station. The area of interest at the site is the former location of three underground storage tanks (USTs) and fuel dispensers where impacted soil and groundwater was first identified in 2006. A detailed site plan is shown on Figure 2.

HYDROGEOLOGIC CONDITIONS

The site is underlain by Quaternary-age dune sand deposits referred to as the Merritt Sand. The Merritt Sand is typically described as loose, well-sorted fine- to medium-grained sand with a large silt component. The sand is reported to reach a maximum depth of 50-feet bgs in the area.

Based on boring logs from the advancement of 11 soil borings and the installation of six monitoring wells and four extraction wells, the stratigraphy of the site and vicinity consists of silt to approximately 30-feet bgs with discontinuous thin intervals of sandy silt and clayey sand present in the area.

Depth to groundwater is shallow, ranging between 10- to 14-feet bgs. The groundwater flow direction appears to be generally toward the south or southwest.

CLEANUP CRITERIA

It is prudent to establish cleanup goals for soil and groundwater based upon reaching the residential Environmental Screening Levels (ESLs) established by Region II for sites with shallow soil where groundwater is not a current or potential drinking water source. The primary constituents of concern relative to the site appear to be total petroleum hydrocarbons as diesel (TPHd) and gasoline (TPHg) benzene, toluene, ethylbenzene, and xylenes (BTEX), methyl tertiary butyl ether (MTBE), and tertiary butyl alcohol (TBA). Accordingly, the following cleanup goals are proposed:

Constituent	Soil (mg/kg)	Groundwater (ug/L)
TPHd	100	210
TPHg	100	210
Benzene	0.12	46
Toluene	9.3	130
Ethylbenzene	2.3	43
Xylenes	11	100
MTBE	8.4	1,800
TBA	100	18,000

PROJECT BACKGROUND

INVESTIGATIONS

In July 2006, Geofon Incorporated (Geofon) advanced soil borings GP-1 and GP-2 and collected and analyzed soil samples. Results are detailed in Geofon's report entitled *Summary of Phase II* Assessment Activities, dated July 25, 2006.

In August 2009, Wright Environmental Services, Inc. (Wright) removed three USTs, associated fuel dispensers, and all associated piping. Results are detailed in Wright's *Closure Report for Three Underground Storage Tanks*, dated September 2009.

In April 2010, Apex Envirotech, Inc. (Apex) advanced nine soil borings to evaluate the lateral extent of impacted soil and groundwater. Results are documented in Apex's Subsurface Investigation Results Report dated June 23, 2010.

In June 2011, ECG supervised the installation of six groundwater monitoring wells (MW-1 through MW-6) and two nested extraction well pairs (EW-1s, EW-1d, EW-2s, and EW-2d). Results are documented in ECG's *Interim Results and Second Quarter 2011 Monitoring Report*, dated August 17, 2011.

In December 2011, ECG supervised the advancement of twelve soil borings (SB-10 through SB-21) and two nested extraction well pairs (VW-1s, VW-1d, VW-2s, and VW-2d). Results are documented in ECG's Off-Site Investigation and Dual Phase Pilot Test Results with Fourth Quarter 2011 Monitoring Report, dated January 26, 2012.

RISK ASSESSMENTS

In January 2011, ECG conducted a preferential pathway study for the site. Results are detailed in ECG's Site Assessment and Soil Vapor Extraction Pilot Test Workplan, dated February 9, 2011.

In January 2011, ECG conducted a sensitive receptor survey for the site. Results are detailed in ECG's Site Assessment and Soil Vapor Extraction Pilot Test Workplan, dated February 9, 2011.

A soil vapor survey has not been completed for the site.

CORRECTIVE ACTIONS

In June 2011, ECG supervised the installation of six groundwater monitoring wells (MW-1 through MW-6) and two nested extraction well pairs (VW-1s, VW-1d, VW-2s, and VW-2d). ECG also performed a 5-day dual phase extraction (DPE) test in June 2011. Results are documented in ECG's Off-Site Investigation and Dual Phase Pilot Test Results with Fourth Quarter 2011 Monitoring Report, dated January 26, 2012.

FIRST QUARTER 2013 MONITORING EVENT

ECG performed the first quarter 2013 groundwater monitoring and sampling event at the site on March 27, 2013. Gauging, development, purging, and sampling were conducted in accordance with ECG's SOPs included in Appendix A. The collected groundwater samples were submitted to Argon Analytical Services, Inc. located in Ceres, California for laboratory analysis under COC protocols (Appendix B).

The following is a summary of the current status of the groundwater monitoring program at the site:

Current Phase of Project:

Remediation

Groundwater Sampling Schedule:

Semi-annual

Wells MW-1 through MW-6, VW-1, and VW-2

Analysis:

TPHg and TPHd by EPA Method 8015M,

BTEX. 5 oxygenates, and 2 lead scavengers by

EPA Method 8260B

Is Free Product Present On-Site:

No

The following is a summary of recent field and analytical data:

Average Depth to Groundwater

9.09-feet below ground surface (bgs)

Average Groundwater Elevation

22.14-feet above mean sea level

Groundwater Gradient Direction

Southeast

Groundwater Gradient

0.0057 feet/foot

TPHg Detected Range Benzene Detected Range 12,000 ug/L (MW-2) to 63,000 ug/L (MW-3) 440 ug/L (MW-2) to 7,100 ug/L (MW-3)

MTBE Detected

77 ug/L (MW-4) to 7,900 (MW-3)

Groundwater samples were not collected from well MW-5 due to the presence of free product or from well MW-6 due to an obstruction over the well. Laboratory analytical reports and COCs are

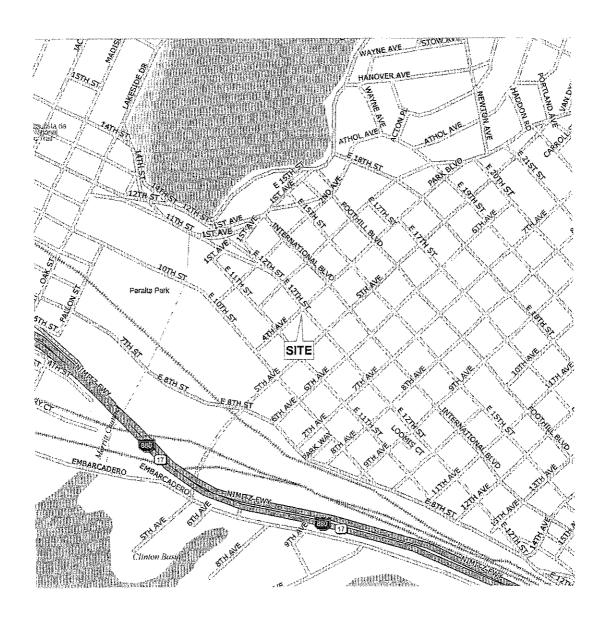
First Quarter 2013 Groundwater Monitoring Report Shore Acres Gas 403 East 12th Street, Oakland, California

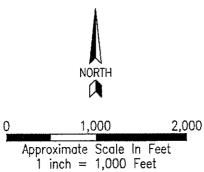
provided in Appendix B. Field notes are located in Appendix C. Summaries of groundwater monitoring and analytical data are presented in Tables 4a.

RESULTS AND CONCLUSIONS

ECG recommends discontinuing analyses for TPHd. ECG is implementing the installation of the remediation system approved by Alameda County in correspondence dated February 7, 2013.

FIGURES





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Project Number: GHA.19009

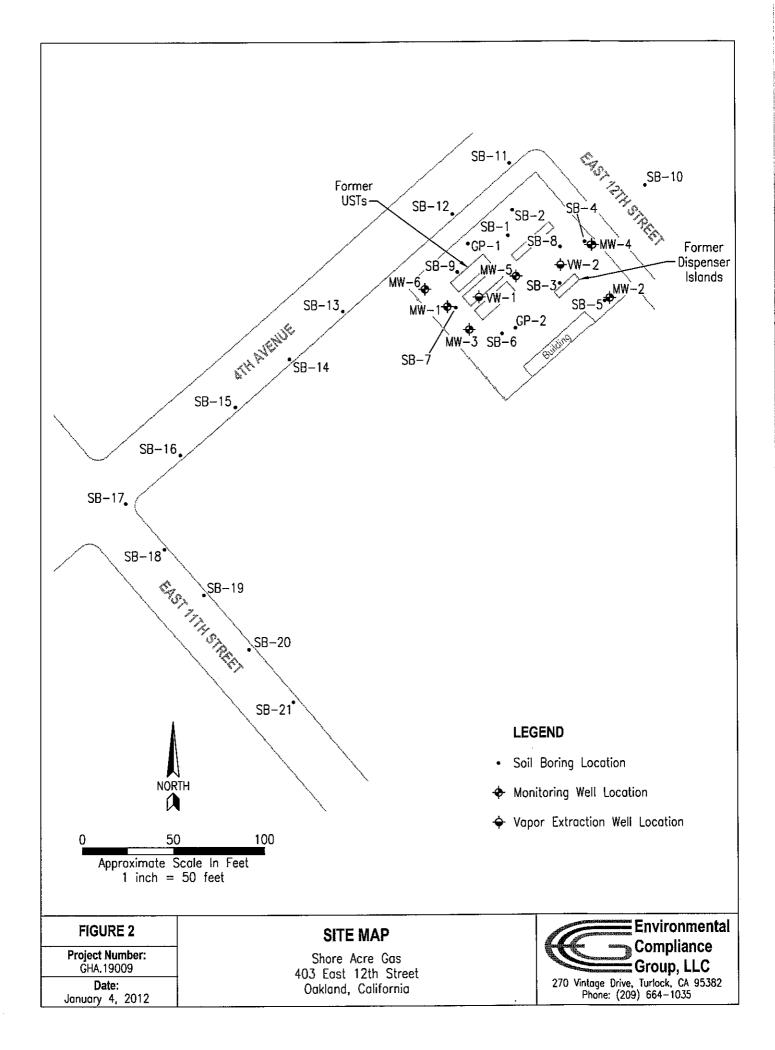
Date: February 9, 2011

SITE LOCATION MAP

Shore Acre Gas 403 East 12th Street Oakland, California



270 Vintage Drive, Turlock, CA 95382 Phone: (209) 664-1035



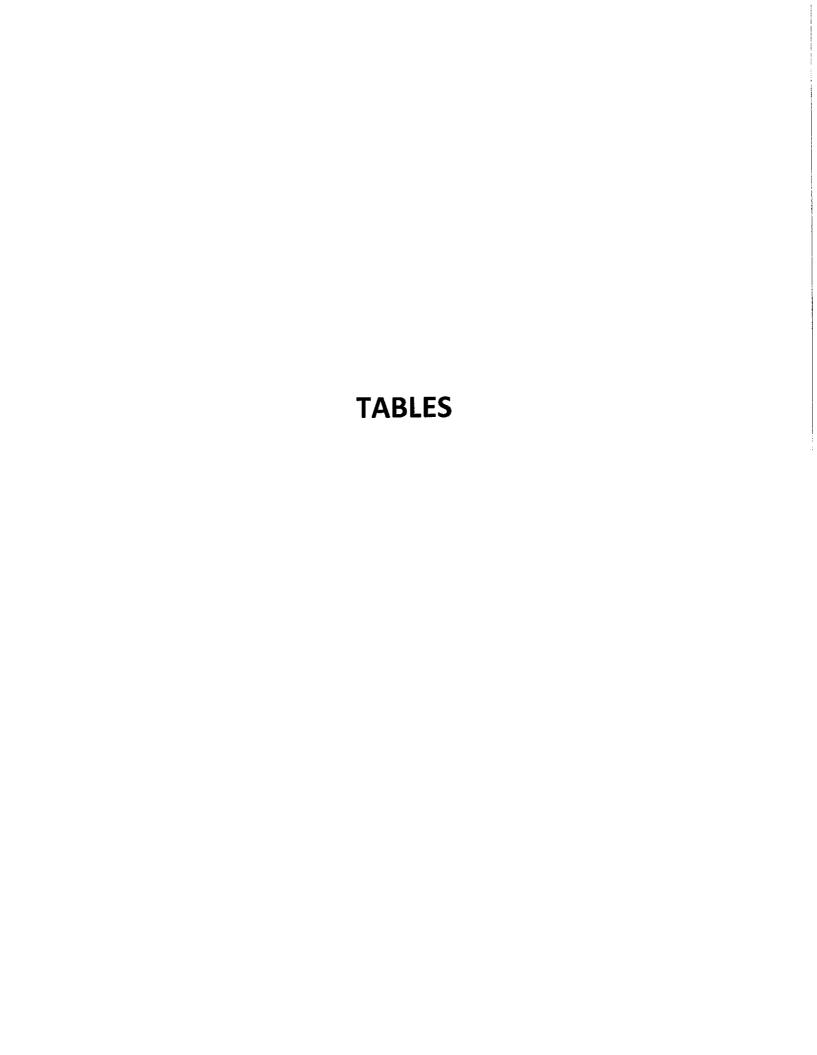


Table 1 Well Construction Details

Shore Acres Gas 403 East 12th Street Oakland, California

Well	Date	TOC	Well	Casing	Casing	Screen/	Screen
ID	Installed	Elevation	Depth	Diameter	Material	Filter	Interval
		(ft amsl)	(ft bgs)	(inches)			(ft bgs)
Monitoring	Wells						
MW-1		30.81	20	2	PVC	0.020/#3	10-20
MW-2	i,	31.29	20	2	PVC	0.020/#3	10-20
MW-3	June 2011	31.30	18	2	PVC	0.020/#3	8-18
MW-4	Julie 2011	31.21	19	2	PVC	0.020/#3	9-19
MW-5		31.35	20	2	PVC	0.020/#3	10-20
MW-6		30.79	20	2	PVC	0.020/#3	10-20
Dual Phase	Extraction We	ells					-
VW-1	June 2011	31.26	20	4	PVC	0.020/#3	5-20
VW-2	Julie 2011	31.40	20	4	PVC	0.020/#3	5-20

Notes:

TOC - denotes top of casing

ft - denotes feet

amsi - denotes above mean sea level

bgs - denotes below ground surface

PVC - denotes polyvinyl chloride

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Table 2a Historical Soil Analytical Data TPH and BTEX

Shore Acres Gas 403 East 12th Street Oakland, California

Boring ID	Sample	Collection	TPHd	TPHg	Benzene	Toluene	Ethyl-	Total
J	Depth	Date	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	benzene	xylenes
	(feet)		•				(mg/kg)	(mg/kg)
UST Removal Sam			· · · · · · · · · · · · · · · · · · ·			-		
SS-D1	2	-	1,800*	3,000	<0.25	0.34	39	180
SS-D2	2	1	900*	2,400	<0.25	<0.25	36	120
SS-D3	2	İ	460*	1,000	<0.15	<0.15	12	14
SS-D4	2	1	540*	640	<0.090	1.0	6.1	51
SS-D5	2		320	140	<0.025	<0.025	1.3	3.2
SS-D6	2.0]	320*	260	<0.025	0.054	1.0	8.0
SS-J1	2.0	1	39*	160	<0.025	<0.025	0.71	0.94
SS-Isle	4.0	August	560*	100	<0.025	<0.025	0.30	0.084
SS-7	18.0	2009	310*	1,600	6.9	76	39	200
Tank 1-SS-1	14.0	1 [830*	2,500	4.2	100	69	360
Tank 1-SS-2	14.0] [62*	480	1.8	5.3	14	62
Tank 2-SS-1	14.0	1 1	120*	290	0.37	2.4	6.3	31
Tank 2-SS-2	14.0] [330*	80	0.074	0.051	1.2	5.8
Tank 3-SS-1	14.0] [480*	2,100	2.4	41	62	320
Tank 3-SS-2	14.0	i i	75*	130	0.23	0.26	3.1	15
Soil Borings	-1							
GP-1-15.5	15.5		13.0	18.0	0.63	0.052	0.69	0.13
GP-1-18.0	18.0	1 2006	<1.0	<1.0	0.0056	0.0082	<0.005	0.019
GP-2-12.0	12.0	July 2006	600	3,600	17	180	98	440
GP-2-20.0	20.0	1	79	1,100	3.2	41	25	130
SB-1-9.5	9.5			1,600	5.1	43	30	180
SB-1-24.5	24.5]		<1.0	<0.005	<0.005	<0.005	<0.010
SB-1-29.5	29.5	1		<1.0	<0.005	<0.005	<0.005	<0.010
SB-2-9.5	9.5]		2.2	0.26	<0.010	0.066	<0.020
SB-2-24.5	24.5]		<1.0	<0.005	<0.005	<0.005	<0.010
SB-2-29.5	29.5]		<1.0	<0.005	<0.005	<0.005	<0.010
SB-3-14.5	14.5	1		17	17	100	42	240
SB-3-24.5	24.5			<1.0	<0.005	0.005	<0.005	0.013
SB-3-29.5	29.5]		<1.0	<0.005	<0.005	<0.005	<0.010
SB-4-14.5	14.5]		1,700	13	79	28	170
SB-4-19.5	19.5	April 2010		<1.0	<0.005	0.009	<0.005	0.026
SB-4-29.5	29.5			<1.0	<0.005	<0.005	<0.005	<0.010
SB-5-14.5	14.5			470	<0.20	0.45	6.2	37
SB-5-24.5	24.5			<1.0	<0.005	<0.005	<0.005	<0.010
SB-5-29.5	29.5			<1.0	<0.005	<0.005	<0.005	<0.010
SB-6-9.5	9.5			6,100	21	170	95	580
SB-6-29.5	29.5			<1.0	<0.005	<0.005	<0.005	<0.010
SB-6-32	32.0]		<1.0	<0.005	<0.005	<0.005	<0.010
SB-7-9.5	9.5]		4,000	12	46	55	360
SB-7-29.5	29.5			<1.0	<0.005	<0.005	<0.005	<0.010
SB-7-32	32.0	٦		<1.0	<0.005	<0.005	<0.005	<0.010

Table 2a **Historical Soil Analytical Data TPH and BTEX**

Shore Acres Gas 403 East 12th Street Oakland, California

Boring ID	Sample	Collection	TPHd	TPHg	Benzene	Toluene	Ethyl-	Total
	Depth	Date	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	benzene	xylenes
	(feet)		, 0, 0,				(mg/kg)	(mg/kg)
SB-8-9.5	9.5			2,500	16	110	63	370
SB-8-24.5	24.5			<1.0	<0.005	<0.005	<0.005	<0.010
SB-8-29.5	29.5	A		<1.0	<0.005	<0.005	<0.005	<0.010
SB-9-14.5	14.5	April 2010		390	3.0	3.0	9.1	41
SB-9-29.5	29.5			<1.0	<0.005	<0.005	<0.005	<0.010
SB-9-32	32.0			<1.0	<0.005	<0.005	<0.005	<0.010
Groundwater Well	S	<u> </u>						
MW-1-5	5		<5.0	<1.0	<0.005	<0.005	<0.005	<0.010
MW-1-15	15	i i	<5.0	18	0.55	<0.050	0.87	1.2
MW-1-20	20		<5.0	<1.0	<0.005	<0.005	<0.005	<0.010
MW-2-5	5	1	<5.0	<1.0	<0.005	<0.005	<0.005	<0.010
MW-2-10	10		<5.0	69	<0.005	<0.005	<0.005	<0.010
MW-2-15	15	1	<5.0	50	<0.050	0.48	3.1	19
MW-2-20	20	1	<5.0	<1.0	<0.005	<0.005	<0.005	<0.010
MW-3-5	5		<5.0	<1.0	<0.010	<0.010	<0.010	<0.020
MW-3-10	10	1	<15	840	3.4	33	20	140
MW-3-15	15	1	<5.0	380	3.0	4.5	7.3	41
MW-3-20	20		<5.0	<1.0	0.019	<0.005	0.006	<0.010
MW-4-5	5	1	<5.0	<1.0	<0.005	<0.005	<0.005	<0.010
MW-4-10	10	1	<15	420	1.7	2.6	9.2	51
MW-4-15	15	1	<5.0	3.1	0.036	0.20	0.15	0.95
MW-4-20	20	luma 2011	<5.0	<1.0	0.007	0.017	0.010	0.039
MW-5-5	5	June 2011	<5.0	76	<0.10	<0.10	1.3	0.76
MW-5-10	10		<15	3,200	4.6	6.5	72	410
MW-5-15	15	1	<5.0	600	1.3	13	15	110
MW-6-5	5	1	<5.0	<1.0	<0.005	<0.005	<0.005	<0.010
MW-6-10	10		<5.0	5.1	0.015	<0.010	3.4	1.0
MW-6-15	15		<5.0	<1.0	<0.005	<0.005	<0.005	<0.010
MW-6-20	20		<5.0	<1.0	<0.005	<0.005	<0.005	<0.010
VW-1-5	5	1	<5.0	34	<0.005	<0.005	0.16	0.31
VW-1-10	10	1	<15	85	<0.10	<0.10	2.2	0.89
VW-1-15	15		<15	420	2.1	4.1	9.4	55
VW-1-20	20	-	<5.0	<1.0	<0.005	<0.005	<0.005	<0.010
VW-2-5	5		<5.0	<1.0	<0.005	<0.005	<0.005	<0.010
VW-2-10	10		<5.0	130	<0.10	<0.10	2.9	15
VW-2-15	15		<15	5,500	29	430	120	910
VW-2-20	20		<5.0	<1.0	0.14	0.054	0.025	0.14
		1					1	

Notes:

TPHd - denotes total petroleum hydrocarbons as diesel TPHg - denotes total petroleum hydrocarbons as gasoline mg/kg - denotes milligrams per kilogram < - denotes less than the detection limit

--- denotes no data

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Table 2b Historical Soil Analytical Data Oxygenates and Lead Scavengers

Shore Acres Gas 403 East 12th Street Oakland, California

Boring ID	Sample	Collection	DIPE	ETBE	MTBE	TAME	TBA	1,2-DCA	EDB
	Depth	Date	(mg/kg)						
	(feet)	<u>, </u>							
UST Removal San	nples								
SS-D1	2		<0.25	<0.25	<0.25	<0.25	<1.5		
SS-D2	2	1 [<0.25	<0.25	<0.25	<0.25	<1.5		
SS-D3	2	1 [<0.15	<0.15	<0.15	<0.15	<0.70		
SS-D4	2	1	<0.090	<0.090	<0.090	<0.090	<0.50		
SS-D5	2	1 [<0.025	<0.025	<0.025	<0.025	<0.15		
SS-D6	2	1 [<0.025	<0.025	<0.025	<0.025	<0.15		
SS-J1	2	1	<0.025	<0.025	<0.025	<0.025	<0.15		
SS-Isle	4	August	<0.025	<0.025	<0.025	<0.025	<0.15		
SS-7	18	2009	<0.25	<0.25	<0.25	<0.25	<1.5	<0.25	<0.25
Tank 1-SS-1	14] [<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50
Tank 1-SS-2	14	1 [<0.040	<0.040	0.37	<0.040	0.51	<0.040	<0.040
Tank 2-SS-1	14	1	<0.050	<0.050	0.18	<0.050	0.35	<0.050	<0.050
Tank 2-SS-2	14] [<0.025	<0.025	0.090	<0.025	0.16	<0.025	<0.025
Tank 3-SS-1	14	1	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<0.50
Tank 3-SS-2	14	1 1	<0.025	<0.025	0.19	<0.025	0.15	<0.025	<0.025
Soil Borings									
GP-1-15.5	15.5		<0.005	<0.005	0.029	<0.005	0.27		
GP-1-18.0	18.0	1 2006	<0.005	<0.005	0.54	<0.005	0.33		
GP-2-12.0	12.0	July 2006	<0.50	<0.50	<0.50	<0.50	<2.5		
GP-2-20.0	20.0	1	<0.025	<0.025	0.041	<0.025	<0.15		
SB-1-9.5	9.5		<0.80	<0.80	<0.80	<0.80	<8.0	<0.80	<0.80
SB-1-24.5	24.5	1	<0.005	<0.005	0.11	<0.005	<0.050	<0.005	<0.005
SB-1-29.5	29.5	1	<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
SB-2-9.5	9.5	1	<0.010	<0.010	< 0.010	<0.010	<0.10	<0.010	<0.010
SB-2-24.5	24.5	1	<0.005	<0.005	0.053	<0.005	<0.050	<0.005	<0.005
SB-2-29.5	29.5	1	<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
SB-3-14.5	14.5	1	<2.0	<2.0	<2.0	<2.0	<20	<2.0	<2.0
SB-3-24.5	24.5	1	<0.005	<0.005	0.10	<0.005	<0.050	<0.005	<0.005
SB-3-29.5	29.5	1	<0.005	<0.005	0.010	<0.005	<0.050	<0.005	<0.005
SB-4-14.5	14.5	7	<1.0	<1.0	<1.0	<1.0	<10	<1.0	<1.0
SB-4-19.5	19.5	April 2010	<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
SB-4-29.5	29.5	7	<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
SB-5-14.5	14.5		<0.20	<0.20	<0.20	<0.20	<2.0	<0.20	<0.20
SB-5-24.5	24.5		<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
SB-5-29.5	29.5		<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
SB-6-9.5	9.5		<2.0	<2.0	<2.0	<2.0	<20	<2.0	<2.0
SB-6-29.5	29.5		<0.005	<0.005	0.20	<0.005	<0.050	<0.005	<0.005
SB-6-32	32.0	7	<0.005	<0.005	0.18	<0.005	<0.050	<0.005	<0.005
SB-7-9.5	9.5		<1.0	<1.0	4.0	<1.0	<10	<1.0	<1.0
SB-7-29.5	29.5	1	<0.005	<0.005	0.18	<0.005	<0.050	<0.005	<0.005
SB-7-32	32.0	7	<0.005	<0.005	0.11	<0.005	<0.050	<0.005	<0.005

Table 2b Historical Soil Analytical Data Oxygenates and Lead Scavengers

Shore Acres Gas 403 East 12th Street Oakland, California

Boring ID	Sample	Collection	DIPE	ETBE	MTBE	TAME	TBA	1,2-DCA	EDB
	Depth	Date	(mg/kg)						
	(feet)								
SB-8-9.5	9.5		<2.0	<2.0	<2.0	<2.0	<20	<2.0	<2.0
SB-8-24.5	24.5	[<0.005	<0.005	0.033	<0.005	<0.050	<0.005	<0.005
SB-8-29.5	29.5	April 2010	<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
SB-9-14.5	14.5	April 2010	<0.20	<0.20	5.5	<0.20	<2.0	<0.20	<0.20
SB-9-29.5	29.5]	<0.005	<0.005	0.090	<0.005	0.15	<0.005	<0.005
SB-9-32	32.0		<0.005	<0.005	0.11	<0.005	<0.050	<0.005	<0.005
Groundwater Well	s								
MW-1-5	5		<0.005	<0.005	0.35	<0.005	0.093	<0.005	<0.005
MW-1-15	15]	<0.050	<0.050	1.1	<0.050	<0.50	<0.050	<0.050
MW-1-20	20		<0.005	<0.005	0.31	<0.005	0.58	<0.005	<0.005
MW-2-5	5]	<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
MW-2-10	10]	<0.050	<0.050	<0.050	<0.050	<0.50	<0.050	<0.050
MW-2-15	15] [<0.050	<0.050	<0.050	<0.050	<0.50	<0.050	<0.050
MW-2-20	20	1	<0.005	<0.005	0.006	<0.005	<0.050	<0.005	<0.005
MW-3-5	5] [<0.010	<0.010	1.5	<0.010	0.37	<0.010	<0.010
MW-3-10	10] [<0.80	<0.80	1.3	<0.80	<8.0	<0.80	<0.80
MW-3-15	15] [<0.20	<0.20	3.0	<0.20	<2.0	<0.20	<0.20
MW-3-20	20] [<0.005	<0.005	0.036	<0.005	0.16	<0.005	<0.005
MW-4-5	5] [<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
MW-4-10	10] [<0.40	<0.40	<0.40	<0.40	<4.0	<0.40	<0.40
MW-4-15	15] [<0.010	<0.010	<0.010	<0.010	<0.10	<0.010	<0.010
MW-4-20	20 .	June 2011	<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
MW-5-5	5		<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<0.10
MW-5-10	10] [<4.0	<4.0	<4.0	<4.0	<40	<4.0	<4.0
MW-5-15	15		<0.40	<0.40	<0.40	<0.40	<4.0	<0.40	<0.40
MW-6-5	5]	<0.005	<0.005	<0.005	<0.005	<0.050	<0.005	<0.005
MW-6-10	10		<0.010	<0.010	<0.010	<0.010	<0.10	<0.010	<0.010
MW-6-15	15		<0.005	<0.005	0.026	<0.005	0.088	<0.005	<0.005
MW-6-20	20		<0.005	<0.005	0.010	<0.005	0.37	<0.005	<0.005
VW-1-5	5]	<0.050	<0.050	<0.050	<0.050	<0.50	<0.050	<0.050
VW-1-10	- 10]	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<0.10
VW-1-15	15		<0.40	<0.40	0.59	<0.40	<4.0	<0.40	<0.40
VW-1-20	20		<0.005	<0.005	0.009	<0.005	0.16	<0.005	<0.005
VW-2-5	5]	<0.005	<0.005	0.25	<0.005	0.14	<0.005	<0.005
VW-2-10	10]	<0.10	<0.10	0.33	<0.10	<1.0	<0.10	<0.10
VW-2-15	15]	<4.0	<4.0	<4.0	<4.0	<40	<4.0	<4.0
VW-2-20	20		<0.005	<0.005	0.008	<0.005	0.26	<0.005	<0.005

Notes:

mg/kg - denotes milligrams per kilogram MTBE - denotes methyl tertiary butyl ether

< - denotes less than the detection limi DIPE - denotes di-isopropyl ether

--- - denotes not analyzed/applicable ETBE - denotes ethyl tertiary butyl ether

DCA - denotes dichloroethane

TAME - denotes tertiary amyl ether

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EDB - denotes ethylene dibromide

TBA - denotes tertiary butyl alcohol

Table 3a Grab Groundwater Sample Results TPH and BTEX

Shore Acres Gas 403 East 12th Street Oakland, California

Sample ID	Collection		· · · · · · · · · · · · · · · · · · ·			Ethyl-	Total
	Date	TPHd	TPHg	Benzene	Toluene	benzene	Xylenes
		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Excavation							
	August						
Pit Sample 1	2009	21,000	21,000	3,800	1,000	1,200	3,700
Direct Push Gra	b Groundwa	ter Sample	es	·			<u> </u>
SB-1			60	2.9	6.7	2.1	9.7
SB-2			<50	<0.5	<0.5	<0.5	<1.0
SB-3			170	1.5	11	4.8	27
SB-4			6,500	78	440	190	960
SB-5	April 2010		<50	<0.5	<0.5	<0.5	<1.0
SB-6			440	<20	<20	<20	<40
SB-7			270	<12	<12	<12	<25
SB-8			<50	0.6	1.3	0.6	3.3
SB-9			<50	<10	<10	<10	<20
SB-10			<50	<0.5	<0.5	<0.5	<1.0
SB-11			2,300	83	1.9	140	43
SB-12			4,700	620	290	84	400
SB-13			400	51	2.4	4.2	9.7
SB-14	D		<50	1.7	<0.5	2.1	<1.0
SB-15	December		320	32	0.7	33	25
SB-16	2011		4,800	1,600	10	49	<20
SB-17			990	290	7.2	27	4.3
SB-18			560	8.7	4.9	23	83
SB-19			260	7.1	<0.5	16	7.0
SB-21	1		<50	<0.5	<0.5	<0.5	<1.0

Notes:

TPHd - denotes total petroleum hydrocarbons as diesel

TPHg - denotes total petroleum hydrocarbons as gasoline

ug/L - denotes micrograms per liter

< - denotes less than the detection limit

--- - denotes not analyzed/applicable

Table 3b Grab Groundwater Sample Results Oxygenates and Lead Scavengers

Shore Acres Gas 403 East 12th Street Oakland, California

Sample ID	Collection	DIPE	ETBE	MTBE	TAME	TBA	1,2-DCA	EDB
	Date	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
	1		;	,				
Excavation	<u>'</u>							
	February	<10	<10	15,000	39	17,000	<10	<10
Water	2000							<u></u>
Direct Push Gra	b Groundwa	ter Sampl	es					
SB-1		<0.5	<0.5	14	<0.5	<5.0	<0.5	<0.5
SB-2	1 [<0.5	<0.5	45	<0.5	<5.0	<0.5	<0.5
SB-3	•	<0.5	<0.5	110	<0.5	32	<0.5	<0.5
SB-4	1	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0
SB-5	April 2010	<0.5	<0.5	0.6	<0.5	<5.0	<0.5	<0.5
SB-6	1	<20	<20	4,000	<20	<200	<20	<20
SB-7	1	<12	<12	2,500	<12	<120	<12	<12
SB-8	1 1	<0.5	<0.5	26	<0.5	98	<0.5	<0.5
SB-9	1 1	<10	<10	1,800	<10	5,300	<10	<10
SB-10		<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5
SB-11	1	<1.0	<1.0	22	<1.0	140	<1.0	<1.0
SB-12	1	<5.0	<5.0	100	<5.0	550	<5.0	<5.0
SB-13		<2.0	<2.0	39	<2.0	3,900	<2.0	<2.0
SB-14] 	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5
SB-15	December	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5
SB-16	2011	<10	<10	<10	<10	<100	<10	<10
SB-17		<2.0	<2.0	<2.0	<2.0	<20	<2.0	<2.0
SB-18		<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5
SB-19		<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5
SB-21		<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5

Notes:

ug/L - denotes micrograms per liter

< - denotes less than the detection limit

DCA - denotes dichloroethane

EDB - denotes ethylene dibromide

MTBE - denotes methyl tertiary butyl ether

DIPE - denotes di-isopropyl ether

ETBE - denotes ethyl tertiary butyl ether

TAME - denotes tertiary amyl ether

TBA - denotes tertiary butyl alcohol

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Table 4a Monitoring Well Data Water Level, TPH, and BTEX

Shore Acres Gas 403 East 12th Street Oakland, California

Well	Date	Depth to	Groundwater					Ethyl-	Total
ID	Measured	Groundwater	Elevation	TPHd	TPHg	Benzene	Toluene	benzene	Xylenes
тос		(ft bgs)	(ft amsl)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Monitoring	Wells								
MW-1	6/23/2011	10.46	20.35	<250	23,000	4,500	820	1,700	3,800
	9/22/2011	12.13	18.68	<50	21,000	4,000	1,500	980	3,000
	12/11/2011	11.69	19.12		23,000	2,900	1,000	720	3,000
	3/30/2012				Inaccessibl	e			
	6/1/2012	11.04	19.77		40,000	4,100	800	2,700	6,100
	9/14/2012	12.96	17.85	<100	20,000	2,700	160	830	2,600
	3/27/2013	8.57	22.24	<50	15,000	1,700	150	400	830
MW-2	6/23/2011	10.70	20.59	<250	13,000	1,000	160	370	1,600
	9/22/2011	12.42	18.87	<50	12,000	300	130	470	1,400
	12/11/2011	11.98	19.31		8,300	170	120	450	1,500
	3/30/2012	8.55	22.74	<250	17,000	850	700	710	2,900
	6/1/2012	11.26	20.03		5,300	830	260	630	1,700
	9/14/2012	13.11	18.18	<50	10,000	260	190	600	1,900
	3/27/2013	9.43	21.86	<50	12,000	440	98	320	810
MW-3	6/23/2011	10.79	20.51	<250	55,000	15,000	3,600	2,000	4,300
	9/22/2011	12.60	18.70	<250	77,000	15,000	3,900	1,700	4,900
	12/11/2011	12.13	19.17		64,000	12,000	3,100	1,600	4,500
	3/30/2012	7.90	23.40	<120	100,000	17,000	10,000	2,000	8,400
	6/1/2012	11.47	19.83		83,000	15,000	6,000	2,900	10,000
	9/14/2012	13.42	17.88	<200	69,000	10,000	1,500	1,800	5,900
	3/27/2013	9.15	22.15	<200	63,000	7,100	2,100	1,900	7,700
MW-4	6/23/2011	10.62	20.59	<250	47,000	3,500	7,100	2,300	11,000
	9/22/2011	12.25	18.96	<250	46,000	2,000	2,400	1,100	5,300
	12/11/2011	11.89	19.32		46,000	2,100	3,400	1,800	7,000
	3/30/2012	8.51	22.70	<250	60,000	6,800	8,200	1,200	5,700
	6/1/2012	11.14	20.07		72,000	9,700	8,500	2,300	9,000
	9/14/2012	12.97	18.24	<50	15,000	940	880	450	1,700
	3/27/2013	9.05	22.16	<50	25,000	1,800	2,200	660	2,500
MW-5	6/23/2011	10.12	21.23	<250	130,000	7,100	25,000	13,000	94,000
	9/22/2011	12.53	18.82	<250	120,000	6,900	7,600	3,800	17,000
	12/11/2011	12.09	19.26		110,000	7,800	14,000	4,200	20,000
	3/30/2012	8.06	23.29						
	6/1/2012	11.38	19.97				ot sampled		
	9/14/2012	13.61	17.74		F		t - not sampl	ed	
	3/27/2013	9.21	22.14				t - not samp		
	-,,	1						-	
а	1	1	1						

Table 4a Monitoring Well Data Water Level, TPH, and BTEX

Shore Acres Gas 403 East 12th Street Oakland, California

Well	Date	Depth to	Groundwater					Ethyl-	Total
ID	Measured	Groundwater	Elevation	TPHd	TPHg	Benzene	Toluene	benzene	Xylenes
тос		(ft bgs)	(ft amsl)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
MW-6	6/23/2011	10.43	20.36	<250	11,000	2,400	120_	480	840
	9/22/2011	12.10	18.69	<50	15,000	1,500	270	880	2,500
	12/11/2011	11.69	19.10	-	13,000	660	190	610	1,500
	3/30/2012	7.50	23.29	<250	9,500	1,200	160	250	520
	6/1/2012	11.04	19.75		23,000	2,200	220	1,300	3,000
	9/14/2012	12.96	17.83	<50	14,000	1,000	86	420	1,200
	3/27/2013	8.50	22.29			Inacce	essible		
DPE Wells						· · · · · · · · · · · · · · · · · · ·			
VW-1	6/28/2011			nan	20,000	2,000	490	1,000	2,400
	9/22/2011	12.55	18.71	<120	39,000	3,900	610	1,400	4,600
	12/11/2011	12.09	19.17		27,000	2,600	270	1,400	4,400
	3/30/2012	8.06	23.20	<120	21,000	3,100	160	910	2,300
	6/1/2012	11.42	19.84		21,000	2,800	100	1,200	3,100
	9/14/2012	13.37	17.89	<50	22,000	1,900	50	1,000	2,600
	3/27/2013	9.06	22.20	<50	15,000	630	36	360	590
VW-2	6/28/2011	****			33,000	3,100	2,000	790	3,500
	9/22/2011	12.50	18.90	<250	66,000	2,400	4,500	2,000	11,000
	12/11/2011	12.12	19.28		70,000	2,800	6,900	2,700	13,000
	3/30/2012	8.48	22.92	<250	57,000	5,800	5,500	1,200	5,400
	6/1/2012	11.40	20.00		82,000	8,800	8,600	3,300	13,000
	9/14/2012	13.27	18.13	<100	32,000	2,600	2,400	1,000	4,500
	3/27/2013	9.24	22.16	<100	18,000	940	790	390	1,700
								<u> </u>	

Notes:

TOC - denotes top of casing elevation

TPHg - denotes total petroleum hydrocarbons as gasoline TPHd - denotes total petroleum hydrocarbons as diesel

ft bgs - denotes feet below top of casing ft amsl - denotes feet above mean sea level

ug/L - denotes micrograms per liter

< - denotes less than the detection limit

--- - denotes not available/applicable

FLH - denotes floating liquid hydrocarbons

* - denotes less than six inches of water and considered dry

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Table 4b Monitoring Well Data Oxygenates and Lead Scavengers

Shore Acres Gas 403 East 12th Street Oakland, California

Well	Date	DIPE	ETBE	MTBE	TAME	TBA	1,2-DCA	EDB
ID	Measured	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
TOC						·		
Monitoring	Wells		T ****	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·	
MW-1	6/23/2011	<25	<25	3,000	<25	3,900	<25	<25
	9/22/2011	<50	<50	2,600	<50	2,500	<50	<50
	12/11/2011	<20	<20	1,800	<20	1,600	<20	<20
	3/30/2012			·	Inaccessible			
	6/1/2012	<20	<20	2,800	<20	1,300	<20	<20
	9/14/2012	<10	<10	2,200	<10	1,600	<10	<10
	3/27/2013	<0.5	<0.5	590	<0.5	350	<0.5	<0.5
				_				
MW-2	6/23/2011	<10	<10	240	<10	640	<10	<10
	9/22/2011	<5.0	<5.0	110	<5.0	260	<5.0	<5.0
	12/11/2011	<2.5	<2.5	45	<2.5	110	<2.5	<2.5
	3/30/2012	<5.0	<5.0	140	<5.0	490	<5.0	<5.0
	6/1/2012	<5.0	<5.0	180	<5.0	490	<5.0	<5.0
	9/14/2012	<5.0	<5.0	65	<5.0	190	<5.0	<5.0
	3/27/2013	<0.5	<0.5	120	<0.5	930	<0.5	<0.5
MW-3	6/23/2011	<100	<100	8,200	<100	6,400	<100	<100
	9/22/2011	<100	<100	11,000	<100	2,800	<100	<100
	12/11/2011	<100	<100	7,400	<100	1,800	<100	<100
	3/30/2012	<100	<100	13,000	<100	<1,000	<100	<100
	6/1/2012	<50	<50	12,000	<50	<500	<50	<50
	9/14/2012	<50	<50	9,400	<50	<500	<50	<50
	3/27/2013	<0.5	<0.5	7,900	<0.5	3,800	<0.5	<0.5
MW-4	6/23/2011	<50	<50	<50	<50	<500	<50	<50
	9/22/2011	<25	<25	<25	<25	<250	<25	<25
	12/11/2011	<25	<25	<25	<25	<250	<25	<25
•	3/30/2012	<50	<50	56	<50	<500	<50	<50
	6/1/2012	<50	<50	180	<50	<500	<50	<50
	9/14/2012	<20	<20	<20	<20	<200	<20	<20
	3/27/2013	<0.5	<0.5	77	<0.5	450	<0.5	<0.5
	, , , , , , , , , ,			1				
MW-5	6/23/2011	<120	<120	440	<120	<1,200	<120	<120
	9/22/2011	<50	<50	670	<50	1,500	<50	<50
	12/11/2011	<120	<120	690	<120	1,600	<120	<120
	3/30/2012	1220	1	<u> </u>	en - not san	<u> </u>		
	6/1/2012				en - not san			_
	9/14/2012				roduct - not			
	3/27/2013			····	roduct - not			
· · · · · · · · · · · · · · · · · · ·	3,2,72013			,,cc p	1000		T	1

Table 4b Monitoring Well Data Oxygenates and Lead Scavengers

Shore Acres Gas 403 East 12th Street Oakland, California

Well	Date	DIPE	ETBE	MTBE	TAME	ТВА	1,2-DCA	EDB
ID	Measured	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
тос								
MW-6	6/23/2011	<25	<25	1,100	<25	4,000	<25	<25
	9/22/2011	<12	<12	600	<12	2,800	<12	<12
	12/11/2011	<10	<10	290	<10	1,300	<10	<10
	3/30/2012	<10	<10	990	<10	3,500	<10	<10
	6/1/2012	<10	<10	1,400	<10	2,200	<10	<10
	9/14/2012	<10	<10	580	<10	2,000	<10	<10
	3/27/2013				Inaccessible	<u> </u>		
DPE Wells								
VW-1	6/28/2011	<25	<25	1,500	<25	5,300	<25	<25
	9/22/2011	<50	<50	640	<50	1,800	<50	<50
	12/11/2011	<25	<25	490	<25	1,000	<25	<25
	3/30/2012	<20	<20	370	<20	1,100	<20	<20
	6/1/2012	<25	<25	500	<25	1,700	<25	<25
	9/14/2012	<10	<10	370	<10	1,400	<10	<10
	3/27/2013	<0.5	<0.5	270	<0.5	560	<0.5	<0.5
VW-2	6/28/2011	<25	<25	670	<25	4,100	<25	<25
	9/22/2011	<50	<50	740	<50	1,600	<50	<50
	12/11/2011	<50	<50	540	<50	880	<50	<50
	3/30/2012	<50	<50	1,800	<50	2,800	<50	<50
	6/1/2012	<50	<50	2,600	<50	3,300	<50	<50
	9/14/2012	<20	<20	1,100	<20	2,400	<20	<20
	3/27/2013	<0.5	<0.5	360	<0.5	1,800	<0.5	<0.5
							<u> </u>	

Notes:

ug/L - denotes micrograms per liter

< - denotes less than the detection limit

DCA - denotes dichloroethane

ED8 - denotes ethylene dibromide

MTBE - denotes methyl tertiary butyl ether

DIPE - denotes di-isopropyl ether

ETBE - denotes ethyl tertiary butyl ether

TAME - denotes tertiary amyl ether

TBA - denotes tertiary butyl alcohol

--- - denotes no data available

Page 2 of 2 DIC.14244



ENVIRONMENTAL COMPLIANCE GROUP, LLC STANDARD OPERATING AND SAFETY AND LOSS CONTROL PROCEDURES

1.0 SOIL BORING/DRILLING SAMPLE COLLECTION AND CLASSIFICATION PROCEDURES

ECG will prepare a site-specific Health and Safety Plan as required by the Occupational Health and Safety Administration (OSHA) Standard "Hazardous Waste Operations and Emergency Response" guidelines (29 CFR.1910.120). The document will be reviewed and signed by all ECG personnel and subcontractors prior to performing work at the site.

Prior to conducting and subsurface work at the site, Underground Services Alert (USA) will be contacted to delineate subsurface utilities near the site with surface markings. In addition, the first five feet of every location will be hand cleared to a diameter larger than the diameter of the auger or probe as a further precaution against damaging underground utilities. Sites that are currently operated as gas stations will be cleared with a private utility locator prior to drilling activities.

Soil samples to be submitted for chemical analyses are collected into brass or stainless steel tubes. The tubes are placed in an 18-inch long split-barrel sampler. The split-barrel sampler is driven its entire length hydraulically or by 140-pound drop hammer. The split-barrel sampler is removed from the borehole and the tubes are removed. When the tubes are removed from the split-barrel sampler, the tubes are trimmed and capped with Teflon sheets and plastic caps or the soil is removed from the tubes and placed in other appropriate sample containers. The samples are sealed, labeled, and placed in ice under chain-of-custody to be delivered to the analytical laboratory. All samples will be kept refrigerated until their delivery to the analytical laboratory.

One soil sample collected from each split-barrel sampler is field screened with a photoionization detector (PID), flame ionization detector (FID), or other equivalent field screening meter. The soil sample is sealed in a plastic bag or other appropriate container to allow volatilization of volatile organic compounds (VOCs). The field meter is used to measure the VOC concentration in the container's headspace and is recorded on the boring logs at the appropriate depth interval.

Other soil samples collected from each split-barrel sampler are inspected and documented to identify the soil stratigraphy beneath the site and classify the soil types according to the United Soil Classification System. The soil types are recorded on boring logs with the appropriate depth interval and any pertinent field observations. Drilling and sampling equipment are steam cleaned or washed in solution and rinsed in deionized water prior to use, between sample collections and boreholes and after use.

2.0 SOIL EXCAVATION SAMPLE COLLECTION AND CLASSIFICATION PROCEDURES

Soil samples to be submitted for chemical analyses are collected into brass or stainless steel tubes or other appropriate containers. The samples are sealed, labeled, and placed in ice under chain-of-custody (COC) to be delivered to the analytical laboratory. All samples will be kept refrigerated until their delivery to the analytical laboratory.

Select soil samples are placed into a sealed plastic bag or other appropriate container and field screened using a PID, FID, or equivalent meter. Other soil samples collected are inspected and documented to identify the soil stratigraphy beneath the site and classify the soil types according to the United Soil Classification System. The soil types are recorded field notes with the appropriate depth interval and any pertinent field observations. Sampling equipment are steam cleaned or washed in solution and rinsed in deionized water prior to use, between sample collections, and after use. Soil cuttings and rinseate water are temporarily stored onsite pending laboratory analytical results and proper transport and disposal.

3.0 SAMPLE IDENTIFICATION AND COC PROCEDURES

Sample containers are labeled with job number, job name, sample collection time and date, sample collection point, and analyses requested. Sampling method, sampler's name, and any pertinent field observations are recorded on boring logs or excavation field notes. COC forms track the possession of the sample from the time of its collection until the time of its delivery to the analytical laboratory. During sample transfers, the person with custody of the samples will relinquish them to the next person by signing the COC and documenting the time and date. The analytical laboratory Quality Control/Quality Assurance (QA/QC) staff will document the receipt of the samples and confirm the analyses requested on the COC matches the sample containers and preservative used, if any. The analytical laboratory will assign unique log numbers for identification during the analyses and reporting. The log numbers will be added to the COC form and maintained in a log book maintained by the analytical laboratory.

4.0 ANALYTICAL LABORATORY QA/QC PROCEDURES

The analytical laboratory analyzes spikes, replicates, blanks, spiked blanks, and certified reference materials to verify analytical methods and results. The analytical laboratory QA/QC also includes:

Routine instrument calibration,

Complying with state and federal laboratory accreditation and certification programs,

Participation in U.S. EPA performance evaluation studies,

Standard operating procedures, and

Multiple review of raw data and client reports

5.0 HOLLOW STEM AUGER WELL INSTALLATION

Boreholes for wells are often drilled with a truck-mounted hollow stem auger drill rig. The borehole diameter is at least 4 inches wider than the outside diameter of the well casing. Soil samples are collected and screened as described in **Section 1.0** and decontamination procedures are also the same as described in **Section 1.0**.

Wells are cased with both blank and factory-perforated Schedule 40 PVC. The factory perforations are typically 0.020 inches wide by 1.5 inch long slots, with 42 slots per foot. A PVC cap is typically installed at the bottom of the casing with stainless steel screws. No solvents or cements are used in the construction of the wells. Well stabilizers or centering devices may be installed around the casing to ensure the filter material and grout in the annulus are evenly distributed. The casing is purchased pre-cleaned or steam cleaned and washed prior to installation in the borehole.

The casing is set inside the augers and sand, gravel, or other filter material is poured into the annulus to fill the borehole from the bottom to approximately 1-2 feet above the perforations. A two foot thick bentonite plug is placed above the filter material to prevent the grout from filling the filter pack. Neat cement or sand-cement grout is poured into the annulus from the top of the bentonite plug to the surface. For wells located in parking lots or driveways, or roads, a traffic rated well box is installed around the well. For wells located in landscaped areas or fields, a stovepipe well protection device is installed around the well. Soil cuttings and rinseate water are temporarily stored onsite pending laboratory analytical results and proper transport and disposal.

6.0 MUD AND AIR ROTARY WELL INSTALLATION

Boreholes for wells can also be drilled with a truck-mounted air rotary or mud rotary drill rig. Air or mud can be used as a drill fluid to fill the borehole and prevent the borehole from caving in and remove drill cuttings. Mud or air can be chosen depending on the subsurface conditions. Soil samples are collected and screened as described in **Section 1.0** and decontamination procedures are also the same as described in **Section 1.0**.

Wells are cased with both blank and factory-perforated Schedule 40 PVC. The factory perforations are typically 0.020 inches wide by 1.5 inch long slots, with 42 slots per foot. A PVC cap is typically installed at the bottom of the casing with stainless steel screws. No solvents or cements are used in the construction of the wells. Well stabilizers or centering devices may be installed around the casing to ensure the filter material and grout in the annulus are evenly distributed. The casing is purchased pre-cleaned or steam cleaned and washed prior to installation in the borehole. Soil cuttings and drilling fluids are temporarily stored onsite pending laboratory analytical results and proper transport and disposal.

The casing is set inside the augers and sand, gravel, or other filter material is poured into the annulus to fill the borehole from the bottom to approximately 1-2 feet above the perforations. A two foot thick bentonite plug is placed above the filter material to prevent the grout from filling the filter pack. Neat cement or sand-cement grout is poured into the annulus from the top of the bentonite plug to the surface. For wells located in parking lots or driveways, or roads, a traffic rated well box is installed around the well. For wells located in landscaped areas or fields, a stovepipe well protection device is installed around the well. Soil cuttings and rinseate water are temporarily stored onsite pending laboratory analytical results and proper transport and disposal.

7.0 WELL DEVELOPMENT

After well installation, the wells are developed to remove residual drilling materials from the annulus and to improve well production by fine materials from the filter pack. Possible well development methods include pumping, surging, bailing, jetting, flushing, and air lifting. Development water is temporarily stored onsite pending laboratory analytical results and proper transport and disposal. Development equipment are steam cleaned or washed in solution and rinsed in deionized water prior to use, between sample collections and after use. After well development the wells are typically allowed to stabilize for at least 24 hours prior to purging and sampling.

8.0 LIQUID LEVEL MEASUREMENTS

Liquid level measurements are made with a water level meter and/or interface probe and disposable bailers. The probe tip attached to a measuring tape is lowered into the well and into the groundwater when a beeping tone indicates the probe is in the groundwater. The probe and measuring tape (graduated to hundredths of a foot) are slowly raised until the beeping stops and the depth to water measurement is recorded. If the meter makes a steady tone, this indicates the presence of floating liquid hydrocarbons (FLH) and the probe and measuring tape are raised until the steady tone stops and the depth to the FLH is measured. Once depth to water and depth to FLH (if present) has been recorded, the probe and measuring tape are lowered to the bottom of the well where the total depth of the well is measured. The depth to water, depth to FLH, and depth to bottom are measured again to confirm the results.

If FLH is encountered in the well, a disposable bailer is lowered into the well and brought back to the surface to confirm the thickness/presence of FLH. To minimize potential for cross contamination between wells, all measurements are done from cleanest to dirtiest well. Prior to beginning liquid level measurements, in between measurements in all wells, and at the completion of liquid level measurements, the water level probe and measuring tape is cleaned with solution (Alconox, Simple Green, or equivalent) and rinsed with deionized water.

9.0 WELL PURGING AND SAMPLING

Each well is typically purged of at least three well casing volumes of groundwater prior to collecting a groundwater sample. Purging can continue beyond three well casing volumes if field parameters including pH, temperature, electrical conductivity are not stabilizing during the purging process. If the well is purged dry before the three well casing volumes has been purged, the well is typically allowed to recharge to 80 percent of its initial water level before a groundwater sample is collected.

Purging equipment can include submersible pumps, PVC purging bailers, disposable bailers, air lift pumps, or pneumatic pumps. Prior to beginning well purging, in between each well purging, and at the completion of purging activities, all non-dedicated purging equipment is cleaned with solution (Alconox, Simple Green, or equivalent) and rinsed with deionized water.

Once the well has been purged, it will be sampled with a disposable bailer, PVC bailer, stainless steel bailer, or through a low flow groundwater pump. The groundwater sample is transferred from the bottom of the bailer to reduce volatilization to the appropriate sample container. The sample containers are specified by the analytical laboratory depending on the analyses requested. Sample containers typically include volatile organic compound (VOA) vials with septa of Teflon like materials. The groundwater sample is collected into the VOAs to minimize air bubbles and once the cap has been placed on the VOA, the VOA is tipped upside down to see if air bubbles are present in the VOA. Typically a duplicate VOA is collected from each well to be analyzed by the analytical laboratory, if warranted, to verify results.

Sample containers are labeled as described in **Section 3.0** and placed immediately in an ice chest and kept refrigerated until its delivery to the analytical laboratory. A trip blank may also be prepared by the analytical laboratory to travel with the ice chest during transport to the laboratory. Field blanks from equipment that has been decontaminated may be collected in between use in different wells to verify the decontamination procedure is effective. To minimize potential for cross contamination between wells, all wells are purged and sampled from cleanest to dirtiest well.

10.0 TEDLAR BAG SOIL VAPOR SAMPLING

Sampling equipment to collect Tedlar bag soil vapor samples includes an air pump, a Tedlar bag which can range in size from 1 to 10 liters, and 3/16-inch diameter polyethylene tubing. The air pump should be equipped with 3/16-inch hose barbs for the polyethylene tubing to attach to. The Tedlar bag must be equipped with a valve for filling and sealing the bag.

When soil vapor samples are collected from remediation equipment, the sample collection port on the remediation equipment is typically fitted with a 3/16-inch hose barb. Prior to collecting soil vapor samples from remediation equipment, air flow, temperature, and pressure or vacuum of the sampling point/remediation equipment are recorded. One end of the polyethylene tubing is connected to the sample collection port and one end is connected to the influent of the air pump, creating an air tight seal. The air pump is turned on and soil vapor from the sample collection port is pumped through the air pump for at least one minute. The air pump is turned off and one end of another piece of polyethylene tubing is connected to the effluent of the air pump and one end is connected to the valve on the Tedlar bag. The valve is opened and the air pump is turned on filling the Tedlar bag with the soil vapor sample until the bag has reached 75% capacity, when the valve on the Tedlar bag is closed and the air pump is turned off.

Tedlar bags are labeled as described in **Section 3.0** and placed immediately in an empty ice chest and kept dry and unrefrigerated until its delivery to the analytical laboratory. After each soil vapor sample collection, the air pump is turned on for five minutes to allow ambient air to clear the air pump and polyethylene tubing.

11.0 SUMMA CANISTER SOIL VAPOR SAMPLING

Sampling equipment to collect Summa canister soil vapor samples includes a sterilized Summa stainless steel canister under vacuum, $\frac{1}{4}$ -inch diameter polyethylene tubing, and a laboratory calibrated flow meter, if required.

When soil vapor samples are collected from remediation equipment, the sample collection port on the remediation equipment is typically fitted with brass connection with silicone septa that has been threaded into a tapped hole on the piping network. Prior to collecting soil vapor samples from remediation equipment, air flow, temperature, and pressure or vacuum of the sampling point/remediation equipment are recorded. One end of the polyethylene tubing is connected to the brass sample collection port and one end is connected to the canister valve or flow meter, creating an air tight seal. Prior to collecting the soil vapor sample, the valve on the Summa canister is opened to verify the Summa canister has the required vacuum which is recorded. Three well volumes of vapor will be purged at a rate less than 200 milliliters per minute (ml/min.), including sand pack pore volume from each soil vapor probe prior to sample collection. The sample valve or flow meter is opened and the soil vapor sample is collected into the Summa canister and the sample valve is closed and the final vacuum reading (typically greater than 5 inches per square inch) on the Summa canister is recorded.

Per the DTSC Advisory Active Soil Gas Investigations, April 2012, high quality soil gas data collection is driven by project-specific data quality objectives (DQOs) and can be enhanced by using a shroud and a gaseous tracer compound. This method of leak detection ensures that soil gas wells are properly constructed and the sample train components do not leak. Most gaseous tracer compounds do not affect target analyte measurements nor does their detection require sample dilution. Also, gaseous leak tracer compounds allow a quantitative determination of a leak either in the sampling train or from ambient air intrusion down the borehole.

The shroud will be designed to contain the entire sampling train and the soil gas well annulus. The sampling train will be constructed of material that does not react with the sample analytes and will not off gas or adsorb volatile compounds. The sampling equipment will be clean and shut-in tested prior to use. The gaseous leak tracer compound (isobutylene 100 ppm) concentration inside the shroud will be monitored frequently to verify initial concentrations. A photoionization detector will be used to monitor tracer gas concentrations.

Summa canisters are labeled as described in **Section 3.0** and placed immediately in an empty ice chest and kept dry and unrefrigerated until its delivery to the analytical laboratory.

12.0 SYRINGE SOIL VAPOR SAMPLING

Sampling equipment to collect syringe soil vapor samples includes a sterilized, 100 cubic centimeter, gas tight syringe and silicone septa.

When soil vapor samples are collected from remediation equipment, the sample collection port on the remediation equipment is typically fitted with brass connection with silicone septa that has been threaded into a tapped hole on the piping network. Prior to collecting soil vapor samples from remediation equipment, air flow, temperature, and pressure or vacuum of the sampling point/remediation equipment are recorded. The syringe is inserted into the silicone septa and the plunger is purged or pumped at least three times. The sample is collected the fourth time the syringe plunger is extracted and the syringe is removed from the sample collection port and the needle on the syringe is capped with a rubber stopper.

Syringes are labeled as described in **Section 3.0** and placed immediately in an empty ice chest and kept dry and unrefrigerated until its delivery to the analytical laboratory.

13.0 TEMPORARY SAMPLING POINTS

A temporary borehole is advanced using either a slam bar or a direct push drill rig. In the case of the slam bar, once the borehole has been created, a temporary soil vapor probe is inserted into the borehole and advanced with a slide hammer or other physical force two additional feet. A bentonite seal is then placed in the borehole above the soil vapor probe to create an air tight seal and prevent ambient air from entering the sample collection space. In the case of the direct push drill rig, the sampling rod is advanced to the desired depth with a 6-inch retractable vapor screen at the tip. The sample screen on the 6-inch vapor screen is removed and a bentonite seal is then placed in the borehole above the soil vapor probe to create an air tight seal and prevent ambient air from entering the sample collection space.

Once the bentonite seal has set, at least one hour, the soil vapor survey samples are collected into Tedlar bags as described in **Section 10.0** or Suma canisters as described in **Section 11.0**. Samples are labeled as described in **Section 3.0** and placed immediately in an empty ice chest and kept dry and unrefrigerated until its delivery to the analytical laboratory. After each soil vapor sample collection, the air pump is turned on for five minutes to allow ambient air to clear the air pump and polyethylene tubing.

14.0 REPEATABLE SAMPLING POINTS

A borehole is advanced using either a hand auger or a drill rig. A 6-inch slotted probe with caps on both ends is placed in the borehole. A Swagelok fitting is attached to one end cap and 3/16-inch diameter Nylon tubing is attached to the Swagelok fitting. A one foot sand pack is placed around the probe and the remainder of the borehole is sealed with a layer of dry bentonite powder, followed by a layer of bentonite chips, and an additional layer of dry bentonite powder. A well box is placed on the surface of the repeatable sampling point and the excess Nylon tubing is placed inside the well box.

Soil vapor survey samples will be collected at least one week after probe installation. In addition, soil vapor survey samples will only be collected after five consecutive precipitation free days and after any onsite irrigation has been suspended.

The soil vapor survey samples are collected into Tedlar bags as described in **Section 10.0** or Summa canisters as described in **Section 11.0**. Tedlar bags or Summa canisters are labeled as described in **Section 3.0** and placed immediately in an empty ice chest and kept dry and unrefrigerated until its delivery to the analytical laboratory. After each soil vapor sample collection, the air pump is turned on for five minutes to allow ambient air to clear the air pump and polyethylene tubing.

argon laboratories

09 April 2013

Mike Sgourakis Environmental Compliance Group, LLC 270 Vintage Drive Turlock, CA 95382

RE: Shore Acres Gas Project Data

Enclosed are the results for sample(s) received on 03/26/13 15:11 by Argon Laboratories. The sample(s) were analyzed according to instructions in accompanying chain-of-custody. Results are summarized on the following pages.

Please see quality control report for a summary of QC data pertaining to this project.

The sample(s) will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Sample(s) may be archived by prior arrangement.

Thank you for the opportunity to service the needs of your company.

Sincerely,

Hiram Cueto Lab Manager

Argon Analytical Services, Inc. CHAIN OF CUSTODY

r 	Pri	oject Informat	ол:					R	Report To	:							Samples Submitted To:
Project No: Project Title: Location: Sampler's Name:	GHA.19009 Shore Acres G 403 East 12th t Oakland, CA	as			Consul Addres Contac Phone:	в: t:	270 Vint Turlock, Mike Sg 916.600	mental C tage Driv CA 9531 ourakis .4580	ompliano e		LLC			Laborat Address Contact Phone: Fax:	в:		Argon Labs 2905 Reilroad Avenue Ceres, CA 95307 (209) 581-9280 (209) 581-9282
(print) Sampler's Signatu	ra·				Fax:		209.664		Bill To:						ults Rec	ulred:	(208) 361-9262
Sampler 6 Signator					Client: Addres	s:		Environ	mental Co tage Drive			LLC		Date Re	port Req	ulred:	
		JRN AROUND T		1 0 11			1	ı —		ANAI	LYSIS			_		1	-
RUSH	24 Hour	48 Hour	Standard (5 days)	Special (10-14 days)	TPHg and TPHd by EPA Nethod 8015M	BTEX, 5 oxygenates, 1,2-DCA, EDB by EPA Method 8260B										EDF Reports	COMMENTS
Sample ID.	Dálo	Time	# Containers	Matrix													Preservative
MW-1	1245	145	14	wite	1	X										X	
MW-2	i	לסכו	,	i	Lì	_i_										Li	
MW-3		117,5															<u></u>
MW-4		1012														\perp	
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Relinquished By:			Date;	Time:	Receive	đ By:			-		Date:	`	Time:				T0600174667
Relinquished By:			Date:	Time:	Receive	d By:					Date:		Time:				

Argon Laboratories Sample Receipt Checklist

Client Name:	Environmental	Compl	liance G	rol				D	ate 8	& Time F	leceived:	03	/26/13	1	5:11
Project Name:	Shore Acres Ga	as						_ (Client	t Project	Number:		GHA.	19009)
Received By:	HC			Matr	ix:	Water	7	So	il			Slud	ge		
Sample Carrier:	Client 🗾	Labo	oratory		Fed Ex		UPS	3		Other					
Argon Labs Project	Number:	<u>N303</u>	<u> 1057</u>												
Shipper Container in g	good condition?					Sample	s receive	ed in	prope	er contain	ers?	Yes	7	No	
	N/A	Yes	$\overline{\mathbf{A}}$	No		Sample	s receive	ed int	act?			Yes	7	No	
Samples received und	der refrigeration?	Yes	✓	No		Sufficie	nt sample	e vol	ume i	for reques	sted tests?	Yes	V	No	
Chain of custody pres	ent?	Yes	\checkmark	No		Sample	s receive	ed wit	thin h	olding tim	ne?	Yes	V	No	
Chain of Custody sign	ed by all parties?	Yes	7	No		Do sam	ples con	tain p	prope	er preserv N/A	ative?	Yes	Į.	No	
Chain of Custody mat	ches all sample la	bels?				De VOA	vials cont	tain z	ero he	eadspace?					
		Yes	V	No				(No	one s	submitted	□)	Yes	V	No	
	ANY "N	io" RE	SPONSE	MUST	BE DETA	ILED IN	THE CO	MM	ENTS	SECTIO	N BELOV	ł			
															
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Comments:										· . <u></u>					









EXECUTION INDOMESTATION 2905 Railroad Ave. Ceres, CA 95307 (209)581-9280 Fax (209)581-9282

Environmental Compliance Group, LLC

270 Vintage Drive Turlock, CA 95382 Project Number: GHA,19009

Project Name: Shore Acres Gas Project Manager: Mike Sgourakis Work Order No.: N303057

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	N303057-01	Water	03/26/13 11:45	03/26/13 15:11
MW-2	N303057-02	Water	03/26/13 10:03	03/26/13 15:11
MW-3	N303057-03	Water	03/26/13 11:20	03/26/13 15:11
MW-4	N303057-04	Water	03/26/13 10:22	03/26/13 15:11
EW-1	N303057-05	Water	03/26/13 13:01	03/26/13 15:11
EW-2	N303057-06	Water	03/26/13 11:00	03/26/13 15:11

2905 Railroad Ave. Ceres, CA 95307 (209)581-9280 Fax (209)581-9282

Environmental Compliance Group, LLC

270 Vintage Drive Turlock, CA 95382 Project Number: GHA.19009

Project Name: Shore Acres Gas Project Manager: Mike Sgourakis Work Order No.: N303057

Total Petroleum Hydrocarbons @ Diesel

Analyte	Result Sampled: 26-Mar-13 11:45 Recu	Reporting Limit	Units				
BANK # /BI202055 04) 381-4-	Sampled: 26-Mar-13 11:45 Rece		Omis	Dilution	Analyzed	Method	Note
MW-1 (N303057-01) Water	Dampicus 20-mai-15 11:45 Acci	eived: 26-Mar	-13 15:11				
Diesel	ND	50	ug/L	1	28-Mar-13	EPA 8015Mod	
Surr. Rec.:		102 %			ı	μ	
MW-2 (N303057-02) Water	Sampled: 26-Mar-13 10:03 Reco	eived: 26-Mar	-13 15:11				
Diese!	ND	50	ug/L	1	28-Mar-13	EPA 8015Mod	
Surr. Rec.:		107 %			n	"	
MW-3 (N303057-03) Water	Sampled: 26-Mar-13 11:20 Reco	eived: 26-Mar	-13 15:11				
Diesel	ND	50	ug/L	1	28-Mar-13	EPA 8015Mod	
Surr. Rec.:		101 %			и	н	
MW-4 (N303057-04) Water	Sampled: 26-Mar-13 10:22 Reco	eived: 26-Mar	-13 15:11				
Diesel	ND	50	ug/L	.1	28-Mar-13	EPA 8015Mod	
Surr, Rec.:		103 %			н	н	
EW-1 (N303057-05) Water	Sampled: 26-Mar-13 13:01 Rece	ived: 26-Mar-	13 15:11				
Diesel	ND	50	ug/L	1	28-Mar-13	EPA 8015Mod	
Surr. Rec.:		90 %			И	n .	
EW-2 (N303057-06) Water	Sampled: 26-Mar-13 11:00 Rece	ived: 26-Mar-	13 15:11				
Diesel	ND	50	ug/L	1	28-Mar-13	EPA 8015Mod	
Surr. Rec.:		95 %			"	#	

Approved By

Argon Laboratories, Inc. California D.O.H.S. Cert. #2359

EUSION laboratories 2905 Railroad Ave. Ceres, CA 95307 (209)581-9280 Fax (209)581-9282

Environmental Compliance Group, LLC

270 Vintage Drive Turlock, CA 95382 Project Number: GHA.19009
Project Name: Shore Acres Gas
Project Manager:Mike Sgourakis

Work Order No.: N303057

Total Petroleum Hydrocarbons @ Gasoline

							
Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
MW-1 (N303057-01) Water Sampled: 26-M	ar-13 11:45 Reco	eived: 26-Mar	-13 15;11				
Total Petroleum Hydrocarbons @ Gasoline	15000	1000	ug/L	20	01-Apr-13	8015M	
Surr. Rec.:		89 %			n	tt .	
MW-2 (N303057-02) Water Sampled: 26-M	ar-13 10:03 Reco	eived: 26-Mar	-13 15:11				
Total Petroleum Hydrocarbons @ Gasoline	12000	1000	ug/L	20	01-Apr-13	8015M	
Surr, Rec.:		96 %			H	n	
MW-3 (N303057-03) Water Sampled: 26-M	ar-13 11:20 Rec	eived: 26-Maı	-13 15:11				
Total Petroleum Hydrocarbons @ Gasoline	63000	5000	ug/L	100	01-Apr-13	8015M	
Surr. Rec.:		94 %			H	п	
MW-4 (N303057-04) Water Sampled: 26-M	ar-13 10:22 Rec	eived: 26-Maı	-13 15:11				
Total Petroleum Hydrocarbons @ Gasoline	25000	2500	ug/L	50	01-Apr-13	8015M	
Surr. Rec.:		91%			21	n	
EW-1 (N303057-05) Water Sampled: 26-Ma	ar-13 13:01 Rece	ived: 26-Mar	-13 15:11				
Total Petroleum Hydrocarbons @ Gasoline	15000	1000	ug/L	20	01-Apr-13	8015M	
Surr. Rec.:		94%			H	п	
EW-2 (N303057-06) Water Sampled: 26-Ma	ar-13 11:00 Rece	eived: 26-Mar	-13 15:11				
Total Petroleum Hydrocarbons @ Gasoline	18000	1000	ug/L	20	01-Apr-13	8015M	
Surr, Rec.:		93 %			n	и	

Approved By

Argon Laboratories, Inc. California D.O.H.S. Cert. #2359

2905 Railroad Ave. Ceres, CA 95307 (209)581-9280 Fax (209)581-9282

Environmental Compliance Group, LLC

270 Vintage Drive Turlock, CA 95382 Project Number: GHA.19009

Project Name: Shore Acres Gas Project Manager: Mike Sgourakis Work Order No.: N303057

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
MW-1 (N303057-01) Water	Sampled: 26-Mar-13 11:45	Received: 26-Mar	-13 15:11				
Benzene	1700	0.5	ug/L	1	01-Apr-13	8260B	
Toluene	150	0.5		ш	н	u	
Xylenes, total	830	1.0	ш	II	11	11	
Ethylbenzene	400	0,5	**	II .	P	17	
t-Butanol	350	5.0	11	"	"	P	
Methyl tert-Butyl Ether	590	0,5	n	11	u	'n	
Di-Isopropyl Ether	ND	0,5	"	ii .	"	0	
Ethyl tert-Butyl Ether	ND	0,5		11	н	u	
tert-Amyl Methyl Ether	ND	0.5	ч	II .	ii	"	
1,2-Dichloroethane	ND	0.5	4	«	ū	17	
1,2-Dibromoethane (EDB)	ND	0.5	"	11		IF.	
Surr. Rec.:		93 %	<u> </u>		"	"	
MW-2 (N303057-02) Water	Sampled: 26-Mar-13 10:03	Received: 26-Mar	-13 15:11				
Benzene	440	0.5	ug/L	1	01-Apr-13	8260B	
Toluene	98	0.5	u	u	И	11	
Xylenes, total	810	1.0	"	11	n	11	
Ethylbenzene	320	0.5	**	11	II .	**	
t-Butanol	930	5,0	11:	n	u	"	
Methyl tert-Butyl Ether	120	0.5	n	II .	11	II .	
Di-Isopropyl Ether	ND	0.5	n	II	n	u	
Ethyl tert-Butyl Ether	ND	0.5		ti .	D	и	
tert-Amyl Methyl Ether	ND	0.5	"	tt.	n n	**	
				**	11	IP.	
1,2-Dichloroethane	ND	0.5	**	"			

Surr. Rec.:

96%

2905 Railroad Ave. Ceres, CA 95307 (209)581-9280 Fax (209)581-9282

Environmental Compliance Group, LLC

270 Vintage Drive Turlock, CA 95382 Project Name: Shore Acres C

Project Name: Shore Acres Gas Project Manager: Mike Sgourakis Work Order No.: N303057

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
MW-3 (N303057-03) Water Sampled:	26-Mar-13 11:20 Recei	ved: 26-Mar	-13 15:11				
Benzene	7100	0,5	ug/L	1	01-Apr-13	8260B	
Toluene	2100	0,5	и	11	u	"	
Xylenes, total	7700	1,0	и	D .	"	11	
Ethylbenzene	1900	0,5	и	Ŋ	11	**	
t-Butanol	3800	5.0	e	0	H	*1	
Methyl tert-Butyl Ether	7900	0.5	**	u	п	li .	
Di-Isopropyl Ether	ND	0,5	n	"	"		
Ethyl tert-Butyl Ether	ND	0.5	II .	"	11		
tert-Amyl Methyl Ether	ND	0.5	u u	Ü	"	"	
1,2-Dichloroethane	ND	0.5	u	n	h	17	
1,2-Dibromoethane (EDB)	ND	0.5	n	u .	U .	li .	
Surr. Rec.:		93 %			"	a	
MW-4 (N303057-04) Water Sampled:	: 26-Mar-13 10:22 Recei	ved: 26-Mar	-13 15:11				
MW-4 (N303057-04) Water Sampled: Benzene	26-Mar-13 10:22 Recei	ved: 26-Mar 0.5	-13 15:11 ug/L	1	01-Apr-13	8260B	<u> </u>
11110				1	01-Apr-13	8260B	
Benzene Toluene	1800	0.5	ug/L		01-Apr-13	8260B	
Benzene Toluene Xylenes, total	1800 2200	0.5 0.5	ug/L	u	и	11	
Benzene Toluene Xylenes, total Ethylbenzene	1800 2200 2500	0.5 0.5 1.0	ug/L "	n n	и	11	
Benzene Toluene Xylenes, total Ethylbenzene t-Butanol	1800 2200 2500 660	0.5 0.5 1.0 0.5	ug/L "	11 11	и	11 11	
Benzene Toluene Xylenes, total Ethylbenzene t-Butanol Methyl tert-Butyl Ether	1800 2200 2500 660 450	0.5 0.5 1.0 0.5 5.0	ug/L n n	11 11 11	и	n n n	
Benzene Toluene Xylenes, total Ethylbenzene t-Butanol Methyl tert-Butyl Ether Di-Isopropyl Ether	1800 2200 2500 660 450	0.5 0.5 1.0 0.5 5.0 0.5	ug/L n n	11 14 15	и	11 11 11 10	
Benzene Toluene Xylenes, total Ethylbenzene t-Butanol Methyl tert-Butyl Ether Di-Isopropyl Ether Ethyl tert-Butyl Ether	1800 2200 2500 660 450 77 ND	0.5 0.5 1.0 0.5 5.0 0.5	ug/L u u u	11 14 14 17	11 17 18 19 11	11 11 10 10	
Benzene Toluene Xylenes, total Ethylbenzene t-Butanol Methyl tert-Butyl Ether Di-Isopropyl Ether	1800 2200 2500 660 450 77 ND ND	0.5 0.5 1.0 0.5 5.0 0.5 0.5 0.5	ug/L u	11 14 15 17 27 20	11 11 18 18 19 19	11 0 0 11 11 11 11 11 11 11 11 11 11 11	

Surr. Rec.:

92%

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Environmental Compliance Group, LLC

270 Vintage Drive Turlock, CA 95382 Project Number: GHA.19009

Project Name: Shore Acres Gas Project Manager:Mike Sgourakis Work Order No.: N303057

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Analyzed	Method	Notes
EW-1 (N303057-05) Water	Sampled: 26-Mar-13 13:01 Re	ceived: 26-Mar-	13 15:11				
Велгене	630	0.5	ug/L	1	01-Apr-13	8260B	
Toluene	36	0.5	n	"	11	"	
Xylenes, total	590	1.0	u	II		11	
Ethylbenzene	360	0.5	н	и	a	n	
t-Butanol	560	5.0	11	j)	н	u	
Methyl tert-Butyl Ether	270	0.5	"	н	D	н	
Di-Isopropyl Ether	ND	0,5	11	и	u	11	
Ethyl tert-Butyl Ether	ND	0.5	и	**	41	п	
tert-Amyl Methyl Ether	ND	0.5	11	n	"	н	
1.2-Dichloroethane	ND	0.5	11	u	a	41	
1,2-Dibromoethane (EDB)	ND	0.5	u	"	It	н	
Surr. Rec.:	· · · · · · · · · · · · · · · · · · ·	98 %			u	u	
EW-2 (N303057-06) Water	Sampled: 26-Mar-13 11:00 Re	ceived: 26-Mar	-13 15:11				
Benzene	940	0.5	ug/L	1	01-Apr-13	8260B	
Toluene	790	0.5	"	n	ч	"	
	1700	1.0	n	п	n	u	
Xylenes, total	1700 390	1.0 0,5	"	п	<i>tt</i> 11	11	
Xylenes, total Ethylbenzene							
Xylenes, total Ethylbenzene t-Butanol	390	0,5	u		u	11	
Xylenes, total Ethylbenzene t-Butanol Methyl tert-Butyl Ether	390 1800	0,5 5.0	"	10 10	11 f1	†1 11	
Xylenes, total Ethylbenzene t-Butanol Methyl tert-Butyl Ether Di-Isopropyl Ether	390 1800 360	0.5 5.0 0.5	n u	u D H	n n n	71 11	
Xylenes, total Ethylbenzene t-Butanol Methyl tert-Butyl Ether Di-Isopropyl Ether Ethyl tert-Butyl Ether	390 1800 360 ND	0.5 5.0 0.5 0.5	11 11 12	1) 1) 14	n n n	11 H H	
Xylenes, total Ethylbenzene t-Butanol Methyl tert-Butyl Ether Di-Isopropyl Ether	390 1800 360 ND ND	0.5 5.0 0.5 0.5	11 11 12	6) 10 11 11	0 0 11 14	11 11 11 12	

Surr. Rec.:

95%

Environmental Compliance Group, LLC

270 Vintage Drive Turlock, CA 95382 Project Number: GHA.19009

Project Name: Shore Acres Gas Project Manager:Mike Sgourakis Work Order No.: N303057

Total Petroleum Hydrocarbons @ Diesel - Quality Control

Argon Laboratories

		Reporting		Spike	Source	A/BEO	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	Limit	Units	Level	Result	%REC	Lunus	KFD	Linit	Moles
Batch N300306 - EPA 3510C										
Blank (N300306-BLK1)				Prepared &	Analyzed:	03/28/13				
Surrogate: p-Terphenyl	91.0		ug/L	100		91	70-130			
Diesel	ND	50	"							
LCS (N300306-BS1)				Prepared &	k Analyzed	03/28/13				
Diesel	201		ug/L	200		100	80-120			
LCS Dup (N300306-BSD1)				Prepared &	k Analyzed	03/28/13				
Diesel	204		ug/L	200		102	80-120	1	20	
Matrix Spike (N300306-MS1)	Sou	rce: N303055-	-01	Prepared &	k Analyzed	: 03/28/13				
Diesel	190		ug/L	200	ND	95	70-130		•	
Matrix Spike Dup (N300306-MSD1)	Sou	rce: N303055-	-01	Prepared &	k Analyzed	: 03/28/13				
Diesel	200		ug/L	200	ND	100	70-130	5	20	

Environmental Compliance Group, LLC

270 Vintage Drive Turlock, CA 95382 Project Number: GHA.19009
Project Name: Shore Acres Gas
Project Manager: Mike Sgourakis

Work Order No.: N303057

Total Petroleum Hydrocarbons @ Gasoline - Quality Control

Argon Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch N300319 - EPA 5030B										
Blank (N300319-BLK1)				Prepared &	k Analyzed	: 04/01/13				
Surrogate: a,a,a-Trifluorotoluene	46.5		ug/L	50		93	70-130	<u> </u>		
Total Petroleum Hydrocarbons @ Gasoline	ND	50	"							
LCS (N300319-BS1)				Prepared &	k Analyzed	: 04/01/13				
Total Petroleum Hydrocarbons @ Gasoline	1070		ug/L	1000	· ·	107	80-120			
LCS Dup (N300319-BSD1)				Prepared &	k Analyzed	: 04/01/13				
Total Petroleum Hydrocarbons @ Gasoline	950		ug/L	1000		95	80-120	12	20	•
Matrix Spike (N300319-MS1)	Sou	rce: N303055-	-01	Prepared &	k Analyzed	: 04/01/13				
Total Petroleum Hydrocarbons @ Gasoline	900		ug/L	1000	ND	90	70-130			
Matrix Spike Dup (N300319-MSD1)	Sou	rce: N303055-	01	Prepared &	k Analyzed	: 04/01/13				
Total Petroleum Hydrocarbons @ Gasoline	940		ug/L	1000	ND	94	70-130	4	20	

Environmental Compliance Group, LLC

270 Vintage Drive Turlock, CA 95382 Project Number: GHA.19009

Reporting

Project Name: Shore Acres Gas Project Manager: Mike Sgourakis

Work Order No.: N303057

RPD

%REC

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Spike

Source

Argon Laboratories

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch N300320 - EPA 5030B										
Blank (N300320-BLK1)				Prepared &	: Analyzed:	04/01/13				
Surrogate: Fluorobenzene	48.0		ug/L	50		96	70-130			
Benzene	ND	0.5	υ							
Toluene	ND	0,5								
Xylenes, total	ND	1,0	"							
Ethylbenzene	ND	0,5								
t-Butanol	ND	5.0								
Methyl tert-Butyl Ether	ND	0.5	ø							
Di-Isopropyl Ether	ND	0,5								
Ethyl tert-Butyl Ether	ND	0,5	u.							
tert-Amyl Methyl Ether	ND	0,5	ø							
1,2-Dichloroethane	ND	0.5								
1,2-Dibromoethane (EDB)	ND	0,5	u							
LCS (N300320-BS1)				Prepared &	Analyzed	04/01/13				
Benzene	26.1		ug/L	25		104	80-120			
LCS Dup (N300320-BSD1)				Prepared &	. Analyzed	: 04/01/13				
Benzene	25.8		ug/L	25		103	80-120	1	20	
Matrix Spike (N300320-MS1)	Sourc	e: N303068-	03	Prepared &	z Analyzed	: 04/01/13			:	
Methyl tert-Butyl Ether	23.2		ug/L	25	ND	93	70-130			
Matrix Spike Dup (N300320-MSD1)	Sourc	e: N303068-	03	Prepared &	. Analyzed	: 04/01/13				
Methyl tert-Butyl Ether	22.9	***	ug/L	25	ND	92	70-130	1	20	

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TIMES OF LADORATORIES 2905 Railroad Ave. Ceres, CA 95307 (209)581-9280 Fax (209)581-9282

Environmental Compliance Group, LLC

270 Vintage Drive Turlock, CA 95382 Project Number: GHA.19009

Project Name: Shore Acres Gas Project Manager: Mike Sgourakis Work Order No.: N303057

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

GROUNDWATER LEVEL DATA FORM

PROJECT NAME: Shore Acres PROJECT PROJECT MANAGER: MSS TASK NU

SITE ADDRESS:

403 East 12th Street, Oakland, CA

PROJECT NUMBER: GHA.19009
TASK NUMBER:

WELL ID	TIME	DEPTH TO BOTTOM	DEPTH TO WATER	DEPTH TO PRODUCT	PRODUCT THICKNESS	PRODUCT THICKNESS X 0.8	COMMENTS
MVV-1	८१५०	19.85	0.57				
MW-2	697	20,01	0943				
MW-3	७१५१	17.02	9.15				
MW-4	086	18.77	9.05				(C) 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
MW-5	0944	18.57	9.21				Sheen not
MW-6	0841	19,90	0.50				to sample
Ew- \	094.2	19.73	9.00				
EW-2	0937	19.64	9.24				
				·			
			·				
							1
	<u> </u>						

FIELD TECHNICIAN:	DM	112
DATE:	3/27	<u> </u>

PROJECT N PROJECT N SITE ADDRI	IANAGER:	Shore Acres MSS 403 East 12th	n Street, Oakla		PROJECT NUMB		GHA.1 9009			
WELL ID: MW-1 TYPE OF WELL: Monitoring										
WATER CO	De	Total Depth: pth to Water: lumn Length:		Ś	WELL DIAME 2-inch: 4-inch: 6-inch:	•				
PURGE VOL	LUME CALCU		ultiplier x No. \	/olumos = l	Burgo Voluma					
Wat	er Column Le	x	Multiplier	X	No. Volumes	=	Purge Volume			
MULTIPLIEF		Schedule 40 F 2-inch: 4-inch: 6-inch:	PVC; Gallons/l 0.17 0.65 1.5	Linear Foot	Based on Cas	sing Diame	ter:			
PURGE MET				SAMPLE I						
	-	osable Bailer PVC Bailer ersible Pump Other			Dispos	able Bailer Pump: Other:				
TIME	VOLUME PURGED (gal)	рН	TEMP. (°C)	COND. (uS/cm)	DO (mg/l)	ORP (mV)	COMMENTS			
130	2	6.43	7 C	12.5						
1148	0	6.80	16.5	120	-		co			
1142							souly			

FIELD TECHNICIAN:	DUG- 113	
DATE:	310011	_

PROJECT N PROJECT M SITE ADDRE	ANAGER:	Shore Acres MSS 403 East 12th	n Street, Oakla		PROJECT NU TASK NUMBE	_	GHA.19009		
WELL ID: WW - Z TYPE OF WELL: Monitoring									
WATER COL	Well De	Total Depth: oth to Water: umn Length:	70001 9.43 10.58		WELL DIAME 2-inch: _ 4-inch: _ 6-inch: _	TER:			
PURGE VOL			ıltiplier x No. V	/olumes = F	Purge Volume				
(0 Wat	o 50 er Column Le	. x _ngth	Multiplier	х .	3 No. Volumes	= .	5.25 Purge Volume		
MULTIPLIER		Schedule 40 F 2-inch: 4-inch: 6-inch:	PVC; Gallons/L 0.17 0.65 1.5	inear Foot.	Based on Casi	ing Diamet	er:		
PURGE MET	Disp	osable Bailer PVC Bailer ersible Pump Other		SAMPLE N		able Bailer Pump: Other:			
TIME	VOLUME PURGED (gal)	рН	TEMP. (°C)	COND. (uS/cm)	DO (mg/l)	ORP (mV)	COMMENTS		
%।	1.75	7.304	100	172					
OUSS	3.25	6.7)	(7.2	130					
1003 1000 1000	7/0	(0 4)	127	1)			saw y		
(23)						·- <u>-</u> -	744		
						····			
							· · · · · · · · · · · · · · · · · · ·		

FIELD TECHNICIAN: 1

PROJECT N		Shore Acres			PROJECT NU		GHA.19009
PROJECT N		MSS 403 Fast 12tl	h Street, Oakla	and CA	TASK NUMBE	EK.	
SHE ADDRI		MW-			TYPE (OF WELL:	: Monitoring
WATER CO	De	Total Depth: oth to Water: umn Length:	17, 62 17, 62 9.15 9.57	- - -	WELL DIAME 2-inch: 4-inch: 6-inch:		/ - - -
	UME CALCU Water Colum Column Le	n Length x Mı	ultiplier x No. \	×	Purge Volume 3 No. Volumes	=	Purge Volume
MULTIPLIEI	R DATA:		·	Linear Foot	Based on Cas	ing Dìame	eter:
PURGE ME	Disp	osable Bailer PVC Bailer ersible Pump Other		SAMPLE I - - -		able Baile Pump Other	:
TIME	VOLUME PURGED (gal)	рН	TEMP. (°C)	COND. (uS/cm)	DO (mg/l)	ORP (mV)	COMMENTS
107	1.5	9+>	1,5/3	1,45			
	475	676	12 4	127			
4150	V-3	670	-()'				Sampy
			·			 -	
						······································	
							<u> </u>

FIELD TECHNICIAN: _____DATE: ____

PROJECT NAME: PROJECT MANAGER: SITE ADDRESS:	Shore Acres MSS 403 East 12th	Street, Oakla		PROJECT NU TASK NUMBE		GHA 19009
WELL ID	:MW	-4		TYPE C	F WELL:	Monitoring
D	: Il Total Depth: epth to Water: olumn Length:	9.72		WELL DIAME 2-inch: _ 4-inch: _ 6-inch: _	/_	- - -
PURGE VOLUME CALC Water Colu	<mark>ULATION:</mark> nn Length x Mւ	ultiplier x No. V	/olumes = F	Purge Volume		
Yater Column L	x ength	O.(7 Multiplier	х .	No. Volumes	=	Purge Volume
MULTIPLIER DATA: Multiplier fo	r Schedule 40 F 2-inch: 4-inch: 6-inch:	PVC; Gallons/L 0.17 0.65 1.5	inear Foot.	Based on Cas	ing Diame	eter:
	posable Bailer PVC Bailer nersible Pump Other		SAMPLE	METHOD: Dispos	able Baile Pump Other	
VOLUME TIME PURGED (gal)	рН	TEMP. (°C)	COND. (uS/cm)	DO (mg/l)	ORP (mV)	COMMENTS
1011 11-75	6.64	10,1	170			
1015 3.5 1920 5 1023	603	10.6	120			soupy
	· · · · · · · · · · · · · · · · · · ·					

PROJECT NA PROJECT MA SITE ADDRES	NAGER:	Shore Acres MSS 403 East 12tl	ո Street, Oakla	and, CA	PROJECT TASK NUM		GHA.19009		
	WELL ID:	E	<u> </u>		TYPE OF WELL: Monitoring				
WATER COLU	Well De _l	Total Depth: pth to Water: lumn Length:	(gfeeth 3	7	WELL DIA 2-ind 4-ind 6-ind	h: h:	- - -		
		n Length x Mu	ultiplier x No. \	/olumes = I	3	=			
MULTIPLIER			Multiplier PVC; Gallons/l 0.17 0.65 1.5	Linear Foot	No. Volum		Purge Volume iter:		
PURGE METH	Disp	osable Bailer PVC Bailer ersible Pump Other	/(z)	SAMPLE I		oosable Baile Pump Other	•		
TIME	VOLUME PURGED (gal)	рН	TEMP. (°C)	COND. (uS/cm)	DO (mg	/I) ORP (mV)	COMMENTS		
1239 1249 1259 1361	74 20	6,80 6,75	(793 1813	12.F 136			Sayl		

FIELD TECHNICIAN:	Day 1	
DATE:	370	ND .
		"

PROJECT N PROJECT N SITE ADDRI	IANAGER:	Shore Acres MSS 403 East 12tl	n Street, Oakla		PROJECT NU TASK NUMBE		GHA.19009	
	WELL ID:	<u> </u>	<i>l</i>		TYPE C	OF WELL:	Monitoring	
WATER COI	De	Total Depth: pth to Water: lumn Length:	9.06		WELL DIAME 2-inch: _ 4-inch: _ 6-inch: _	TER:	- - -	
	UME CALCU Water Colum COCT er Column Le	n Length x Mu	ultiplier x No. \ \(\subseteq \langle \subseteq \langle \subseteq \langle \la			=	2 Purge Volume	
MULTIPLIER DATA: Multiplier for Schedule 40 PVC; Gallons/Linear Foot Based on Casing Diameter: 2-inch: 0.17 4-inch: 0.65 6-inch: 1.5								
PURGE MET	Disp	osable Bailer PVC Bailer ersible Pump Other		SAMPLE		able Baile Pump Other		
TIME	VOLUME PURGED (gal)	рН	TEMP. (°C)	COND. (uS/cm)	DO (mg/l)	ORP (mV)	COMMENTS	
5009 5003	7 70	6,77	19.6	17.9 17.6 12.6			souple	
FIELD 1	ECHNICIAN: DATE:		1/26/17					